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PRIORITY

OUT58960

P 302055Z JUL 66 22 COZ
FM NPIC

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multi

AFSSO PACAF
AFSSO ACIC
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AFSSO USAFE
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T O P S E C R E T TALENT KEYHOLE CHANNELS. CITE NPIC 7623.
SUBJECT: CAMERA INFORMATION FOR MISSION 1034-1.

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS (MM)	609.630	609.630	FWD 54.90	FWD 54.90
			AFT 54.92	AFT 55.00
FILTER (WRATTEN NO.)	23A	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN)	.200	.150	1/100	1/100
EXPOSURE (SEC)				
FILM	3404	3404	3404	3404
RESOLUTION (L/MM)	190	193	NA	NA

B. S/I UNITS	STELLAR	INDEX
FOCAL LENGTH (MM) PART 1	84.0976	38.3261

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	PART 2	83.9836	38.2703
FILTER (WRATTEN NO.)		NONE	21
APERTURE		F1.8	F4.5
EXPOSURE (SEC)		2.0	1/500
FILM		3401	3400
RESOLUTION (L/MM)	PART 1		72
	PART 2		73
UNIT NUMBER	PART 1	D85/109/76	
	PART 2	D87/107/105	

3. LENS DISTORTION (PIN CUSHION) MM

	3	2	1	0	359	358	357
A. MAIN UNITS							
FWD UNIT	.003	.002	.001	.000	.002	.003	.005
AFT UNIT	.008	.004	.001	.000	.000	.002	.007

B. HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STAR	PORT	STAR
(RADIAL) 10 DEGREES	.010	.020	.010	.010
20 DEGREES	.050	.060	.050	.060
(TANGENTIAL) MAX VECTOR	.010	.015	.020	.020

4. CAMERA ANGLES

		DEG.	MIN.
A. ANGLE BETWEEN PAN CAMERAS		29	48.01
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR	15	11
	FWD PORT	14	10
	AFT STAR	15	41
	AFT PORT	15	05

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C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART 1	90	01
	PART 2	89	58

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL			AMPL. LEVEL			PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
8	.3290	.0298	6	.0830	.0075	1D1, 2D1, 4D1.
2	.4261	.0385	11	.0000	.0000	42D1
3	.4109	.0372	11	.0000	.0000	25D1, 25D2, 26D1 30D1, 32D1, 47D1, 53D1, 60D1, 61D1, 63D1, 69D1, 69D2, 79D1.
4	.3948	.0357	11	.0000	.0000	22D1, 36D1 THRU 39D3, 54D1 THRU 55D2, 57D1, 72D1, 72D2.
5	.3789	.0343	11	.0000	.0000	16D1, 20D1, 20D2 24D1, 24D2, 40D1. 41D1, 43D1, 43D2, 56D1, 66D1, 68D1, 70D1, 70D2, 80D1,

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6	.3625	.0328	11	.0000	.0000	50D1, 50D2, 73D1, 73D2.
7	.3461	.0313	11	.0000	.0000	5D1 THRU 14D1, 19D1, 34D1, 35D1, 44D1, 59D1, 71D1, 71D2, 75D1.
8	.3290	.0298	11	.0000	.0000	27D1, 29D1, 74D1.

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY HR MIN SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D1	21 23 01 00	1394	38
2D1	22 00 26 34	1081	110
4D1	22 03 26 09	913	113
5D1	22 05 17 09	2163	233
6D1	22 06 34 16	1380	382
8D1	22 09 27 17	943	42
8D2	22 09 30 42	1148	176
9AE	22 10 40 29	0	46
9D1	22 10 53 26	0	93
9D2	22 11 03 57	0	37
10D1	22 12 38 24	1714	115
11D1	22 14 10 25	1828	94
13D1	22 17 18 23	2290	125
14D1	22 18 52 32	2531	142
16D1	22 21 38 15	1658	37

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19D1	23 01 59 56	1135	97
20D1	23 03 48 15	2227	36
20D2	23 03 53 19	2530	38
22D1	23 06 36 57	1536	156
24D1	23 09 30 00	1106	42
24D2	23 09 33 31	1317	283
25D1	23 11 09 12	1652	35
25D2	23 11 20 39	2338	118
26D1	23 12 49 13	2244	72
27D1	23 14 00 40	1123	50
29D1	23 17 20 19	2290	215
30D1	23 18 49 15	2217	191
32D1	23 21 40 53	1702	36
34D1	24 00 32 12	1168	90
35D1	24 02 04 30	1300	131
36D1	24 03 55 06	2529	181
37D1	24 05 18 44	2142	63
37D2	24 05 21 40	2318	50
37D3	24 05 23 15	2414	171
37D4	24 05 27 20	2659	47
38D1	24 06 35 35	1348	38
38D2	24 06 43 35	1828	138
38D3	24 06 49 29	2182	131
39D1	24 08 05 48	1352	36
39D2	24 08 08 38	1521	36
39D3	24 08 11 02	1665	88

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40D1 24	09 36 27	1386	213
41D1 24	11 08 52	1526	90
42D1 24	12 45 24	1910	125
43D1 24	14 02 57	1159	82
43D2 24	14 14 55	1877	56
44D1 24	15 33 38	1194	105
47D1 24	20 12 37	1718	51
50D1 25	00 33 53	1176	156
50D2 25	00 38 42	1466	30
53D1 25	05 11 54	1642	127
54D1 25	06 37 56	1399	98
54D2 25	06 41 02	1585	254
55D1 25	08 07 56	1394	30
55D2 25	08 09 52	1510	220
56D1 25	09 38 03	1396	168
57D1 25	11 11 16	1584	82
59D1 25	14 18 52	2032	72
60D1 25	15 54 37	2373	51
61D1 25	17 22 49	2260	138
63D1 25	20 14 09	1730	95
66D1 26	00 37 18	1308	102
68D1 26	03 40 54	1517	128
69D1 26	05 12 53	1633	165
69D2 26	05 17 30	1910	65

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70D1	26 06 39 40	1435	38
70D2	26 06 43 47	1682	35
71D1	26 08 06 31	1243	66
71D2	26 08 08 19	1351	70
72D1	26 09 39 52	1441	45
72D3	26 09 41 16	1525	220
73D1	26 11 02 37	1002	89
73D2	26 11 12 56	1621	90
74D1	26 12 35 10	1152	106
75D1	26 14 07 05	1264	74
79D1	26 20 16 07	1791	50
80D1	26 22 00 58	2678	32

NOTE: THE ABOVE DATA IS FOR THE MASTER (FWD) UNIT ONLY.

THE SLAVE UNIT STARTED 12 SECONDS LATER THAN THE MASTER UNIT.
THE PROGRAM DURATION REMAINS THE SAME.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
9	157176.991	38511.4373	----
16	196629.539	77963.9805	.005
24	238285.373	33219.8095	.005
32	283187.234	78121.6651	.005
40	324853.255	33387.6810	.005
47	364337.739	72872.1602	.005
56	411384.660	33519.0754	.006
63	450858.229	72992.6395	.005

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72 497910.553 33644.9577 .006

79 438.976 73044.2878 .004

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS

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T O P S E C R E T

-END OF MESSAGE-

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